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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/240,833	02/01/99	HUANG	N
			EXAMINER
NEN-FU HUANG NO 10 ALLEY 3 LANE 6 HSINCHU			BENSON . W ART UNIT PAPER NUMBER
TAIWAN		AIR MAIL	2153 DATE MAILED:
			01/30/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. **09/240.833**

Walter Benson

Applicant(s)

Examiner

Huang et al.
Group Art Unit

2153



 □ Responsive to communication(s) filed on Feb 1, 1999 This action is FINAL. ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. A shortened statutory period for response to this action is set to expire ____ 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a). **Disposition of Claims** is/are pending in the application. X Claim(s) 1-20 Of the above, claim(s) ______ is/are withdrawn from consideration. is/are allowed. is/are objected to. Claim(s) ☐ Claims ______ are subject to restriction or election requirement. **Application Papers** ☑ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. ☐ The drawing(s) filed on is/are objected to by the Examiner. \square The proposed drawing correction, filed on ______ is \square approved \square disapproved. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received. received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) X Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No(s). ☐ Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 ■ Notice of Informal Patent Application, PTO-152 --- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

1. Claims 1-20 are presented for examination.

2. It is noted that although the present application does contain line numbers in the specification of claims, the line numbers in the claims do not correspond to the preferred format.

The preferred format is to number each line of every claim, with each claim beginning with line 1.

For ease of reference by both the Examiner and Applicant all future correspondence should include the recommended numbering.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 2, 3, 4, 6, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- a. The following terms lack proper antecedent basis:
 - i. determining said correspondent entry -- claim 2, line 8;
 - ii. <u>said second bit stream</u> -- claim 2, lines 10 and 11;
 - iii. determining said correspondent entry -- claim 4, line 2:
 - iv. pointing to a corresponding Code Word Array when said first bit stream -- claim 4, line 3;
 - v. entry is larger than or equal to <u>said M</u> and <u>said second bit stream</u> of <u>said correspondent entry</u> of said segmentation table is larger than <u>said Y</u> -- claim 4, lines 4 and 5;
 - vi. A pointer, plus said second bit stream -- claim 4, line 8;
 - vii. wherein each of said Next Hop Arrays -- claim 6, line 1;
- b. The claim language in the following claims in not clearly understood:
 - i. as per claim 8, line 39, it is unclear what is meant by "Next HopArray by <u>assinging</u>" (i.e. is this assigning?);
 - ii. as per claim 8, line 40, it is unclear what is meant by "Compression

 Bit Map Array and assinging" (i.e. is this assigning?).
- c. The following claim is vague and indefinite:
 - claim 20 is vague and indefinite because it is unclear whether this
 claim is an independent claim or dependent claim. For examination
 purposes it will be considered as a dependent claim to claim 17.

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Allowable Subject Matter

- 5. Claims 1-20 are allowed over the prior art.
- 6. Claims 2, 4, 6, and 20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or suggest individually or in combination an Internet Protocol routing lookup scheme and system for multi-gigabit switching routers, such as claimed, that constructs a Next Hop Array for each entry in the segmentation table when the longest prefix length of the segment is larger than a first predetermined value by constructing a Compression Bit Map for each entry of the Next Hop Array when the value of the offset length field is larger than a second predetermined number of bits and constructing a Code Word Array and a Compressed Next Hop Array for each of the Compression Bit Map, where the Code Word Array consisted of a plurality of code words each having a Map and Base.

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Conclusion

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8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Walter Benson whose telephone number is (703) 306-4525. The examiner

can normally be reached on Monday to Thursday and alternate Fridays from 6:30AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Glen Burgess, can be reached on (703) 305-4792. The fax phone number for the

organization where this application or proceeding is assigned is (703) 305-7201.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-3900.

Walter Benson 62 Patent Examiner

January 27, 2000